

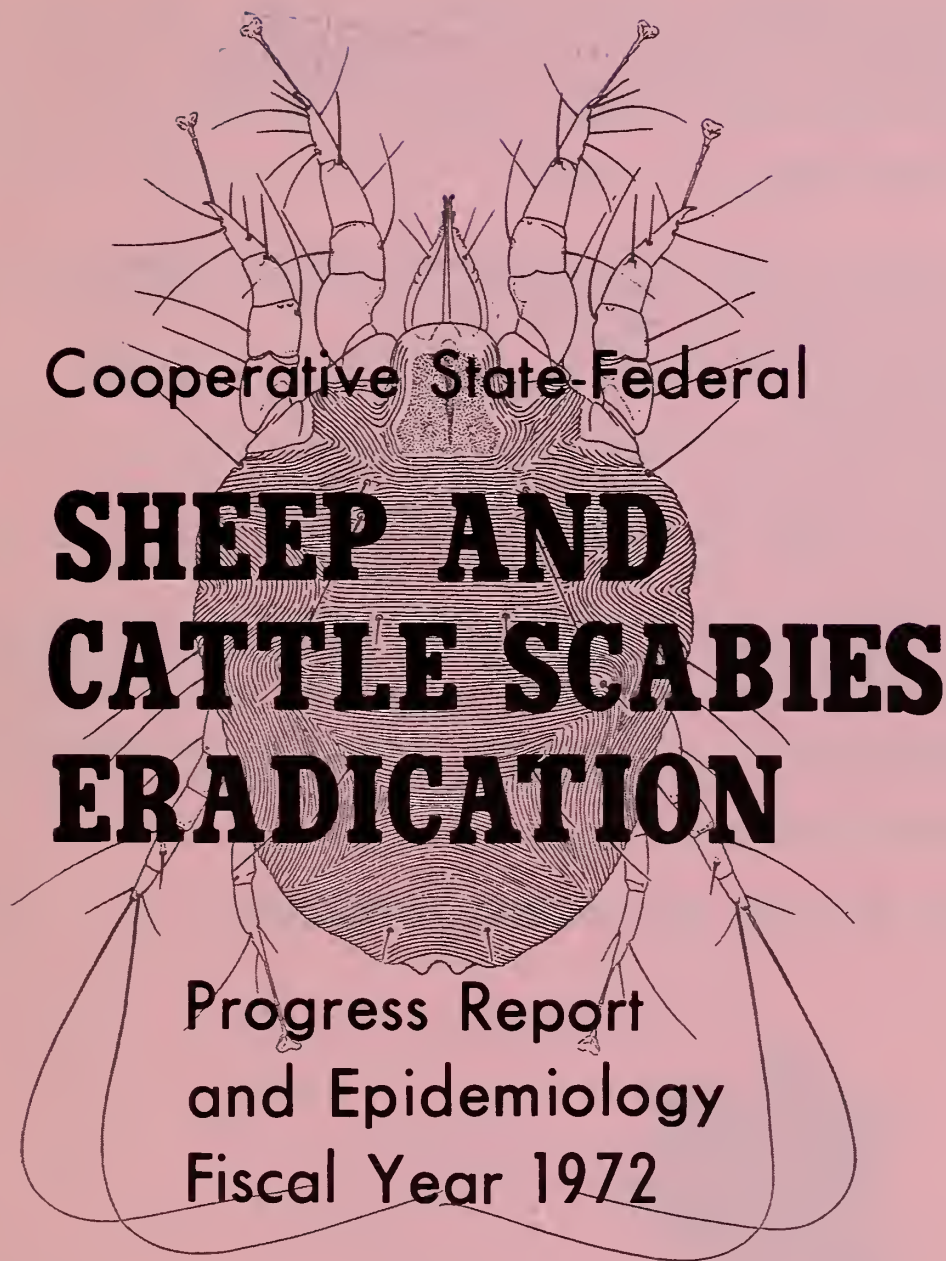
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September 1973



Cooperative State-Federal

SHEEP AND CATTLE SCABIES ERADICATION

Progress Report
and Epidemiology
Fiscal Year 1972

Animal and Plant Health Inspection Service
UNITED STATES DEPARTMENT OF AGRICULTURE

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COOPERATIVE STATE-FEDERAL
SHEEP AND CATTLE SCABIES ERADICATION
Progress Report and Epidemiology
Fiscal Year 1972

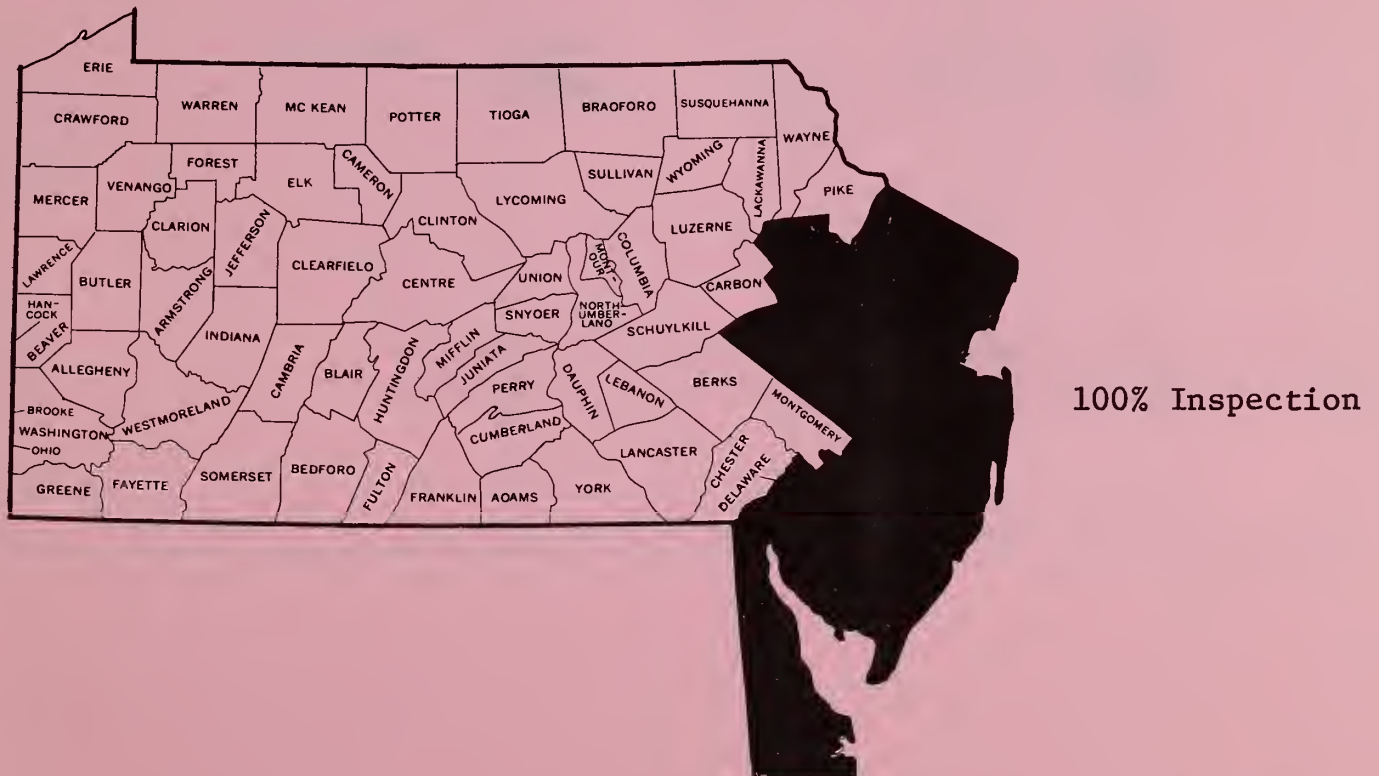
SHEEP SCABIES

During Fiscal Year 1972, sheep scabies eradication saw significant progress. Gloucester and Hunterdon Counties, N. J., were removed from the Infected-Eradication Area and placed in the Sheep Scabies Free Area (amendment of Part 74 (9 CFR) effective July 4, 1971). This is the first time since the accelerated sheep scabies eradication program was started in August 1960 that all U. S. counties have been a Sheep Scabies Free Area.

The year went by without disclosure of psoroptic sheep scabies in any State. The number of sheep inspected was less than the preceding fiscal year; however, all flocks were inspected in New Jersey, Delaware, and Maryland and all flocks in Pennsylvania counties where scabies was reported in recent years. Inspection was carried out on an extensive scale in Connecticut and New York.

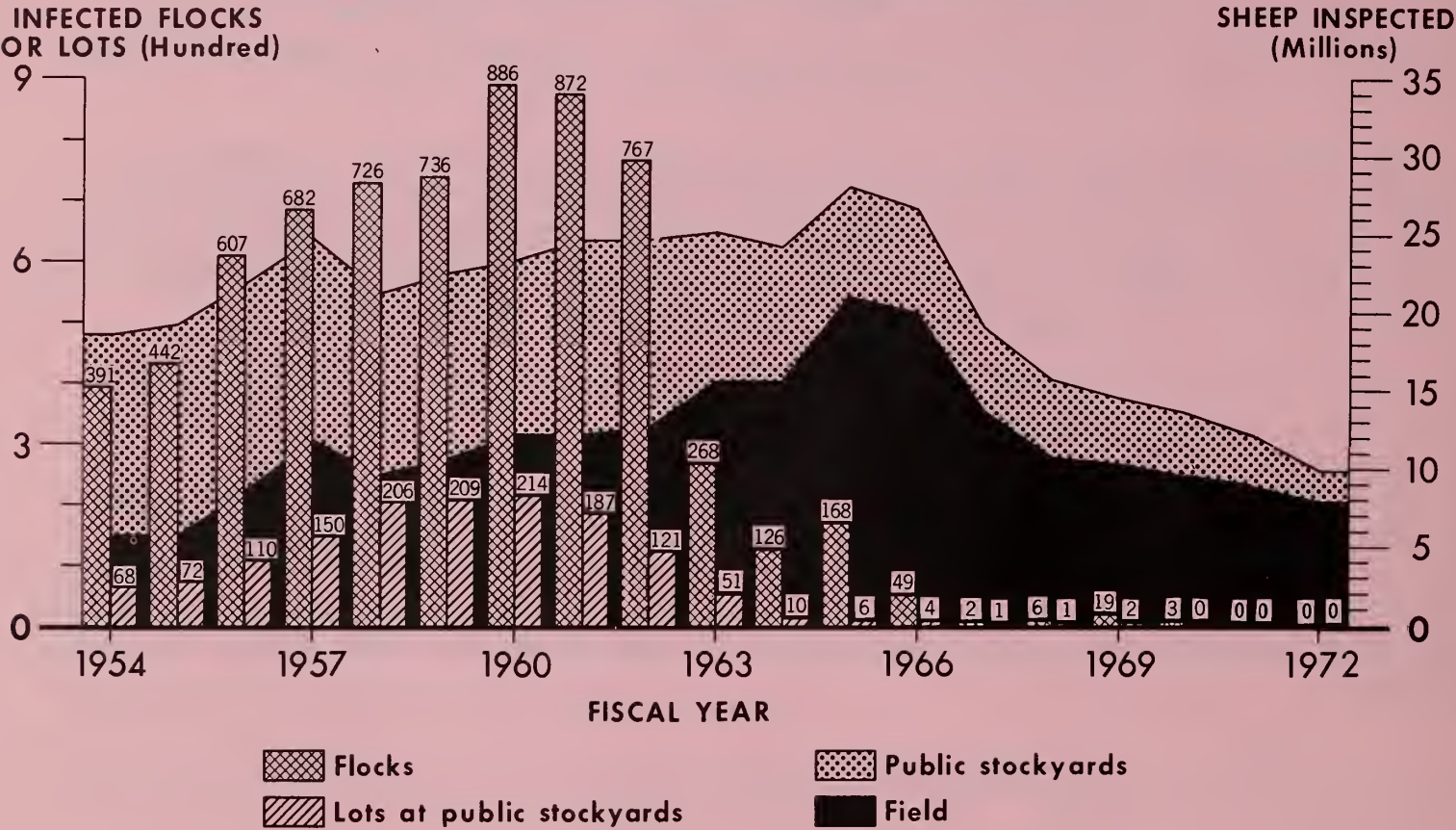
The latest reported outbreak of psoroptic sheep scabies was from Gloucester County, N. J., in January 1970.

January 1973 marks the end of the 3-year period accepted as the minimum time free of cases before the country can be declared free of psoroptic sheep scabies. The surveillance (which was and is) necessary to validate the 3-year free period (has and) is being carried out. The following map shows the FY 1972 inspection areas in New Jersey and adjoining States where surveillance is most pertinent.



Surveillance must be continued throughout the country as psoroptic sheep scabies exists in many foreign countries; thus, the possibility of introducing scabies remains. The possibility of an overlooked infection, although highly improbable, is also reason for continued awareness of the disease and the need for surveillance. For instance, psoroptic cattle scabies was not reported in 1950, 1951, and 1952; and yet was found in Colorado in 1954.

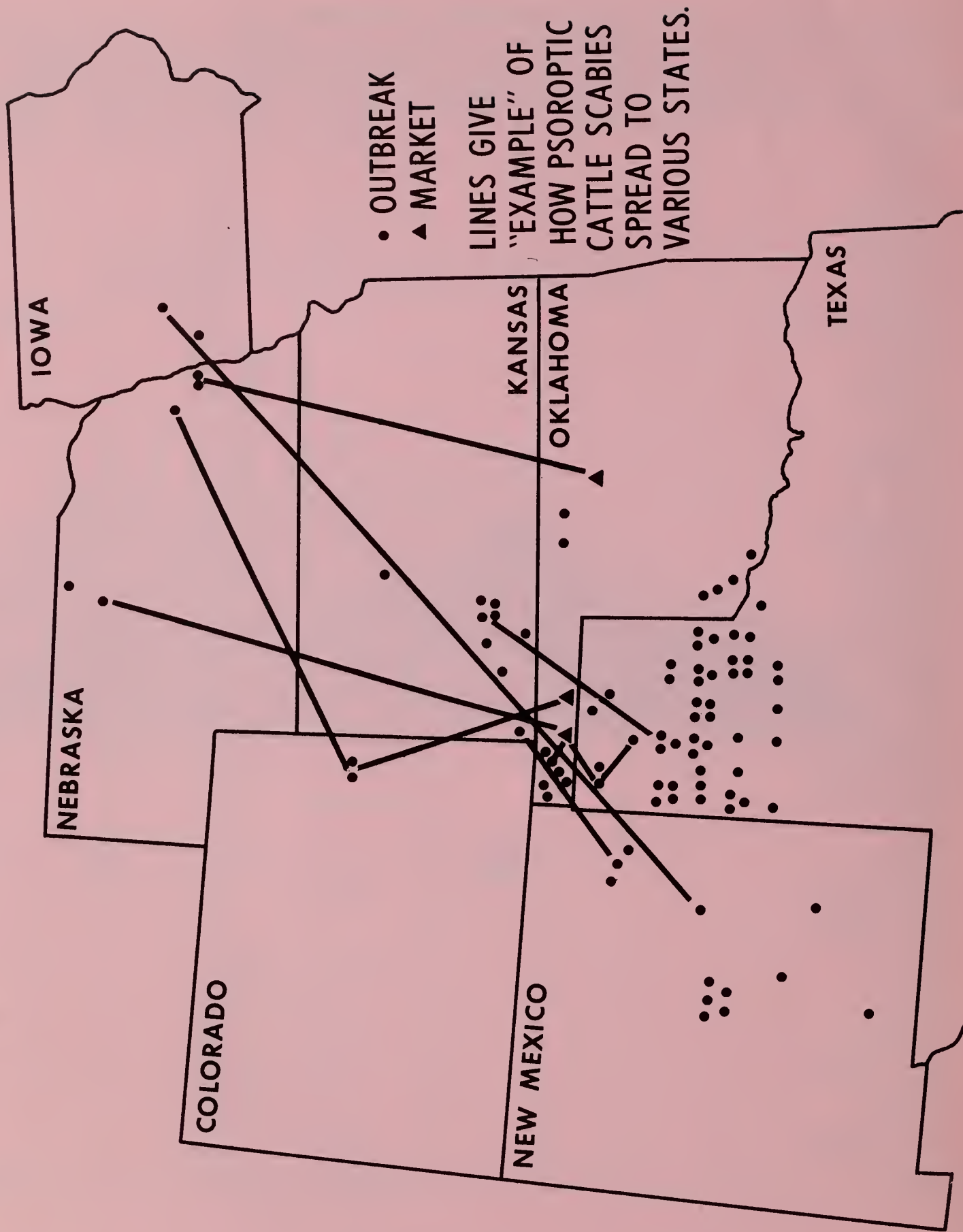
PSOROPTIC SHEEP SCABIES ERADICATION



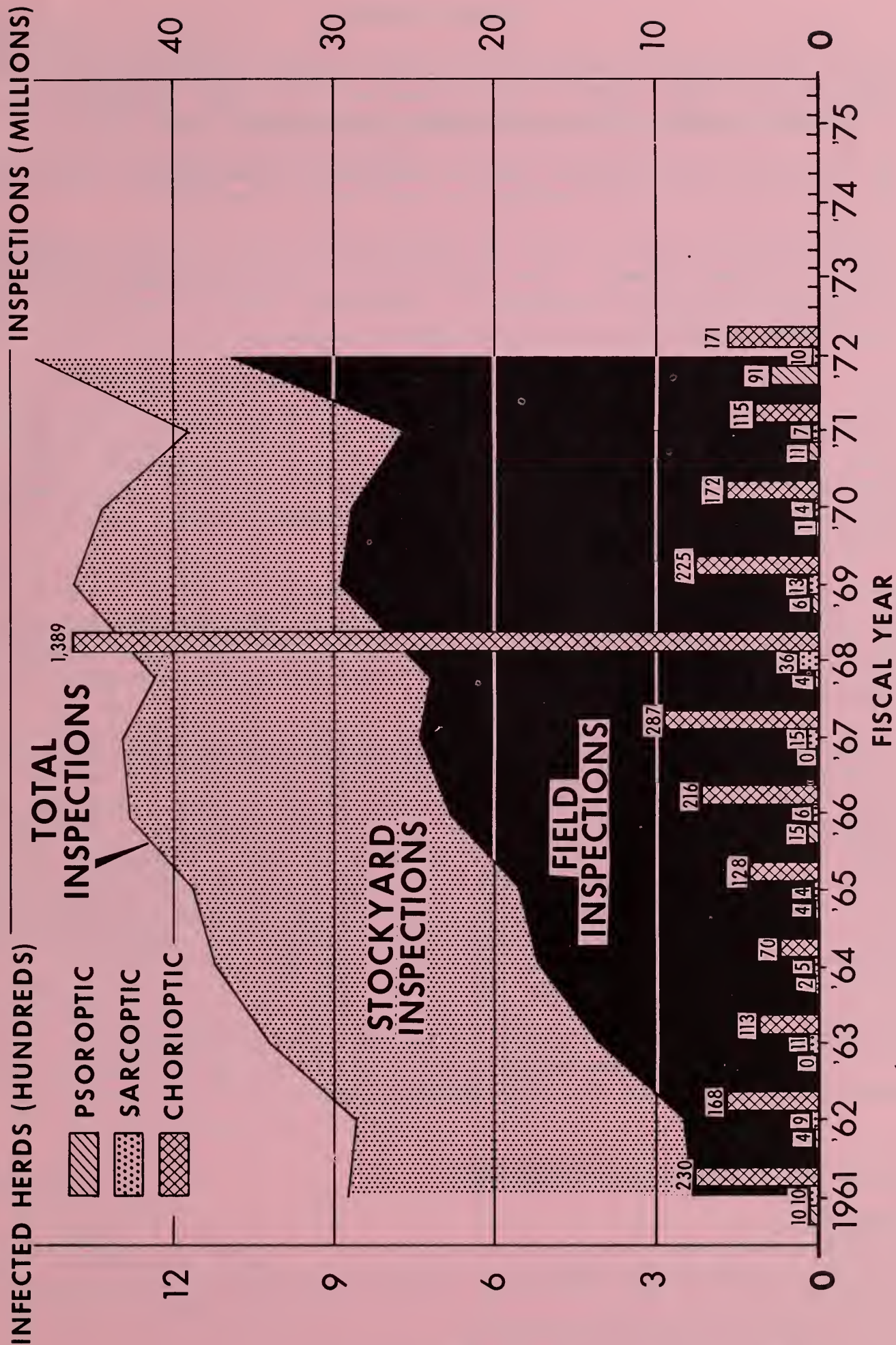
PSOROPTIC SHEEP SCABIES -- FISCAL YEAR 1972

	INFECTED			INSPECTIONS		DIPPINGS	
	Counties	Flocks	Sheep	Goats	Sheep	Goats	Sheep
	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>
ALABAMA	--	--	--	--	--	--	--
ALASKA	--	--	--	--	--	--	--
ARIZONA	--	--	--	77	79,786	--	--
ARKANSAS	--	--	--	--	5,392	--	--
CALIFORNIA	--	--	--	2,482	314,354	--	--
COLORADO	--	--	--	110	129,702	--	--
CONNECTICUT	--	--	--	16	6,751	--	32
DELAWARE	--	--	--	--	4,199	--	--
FLORIDA	--	--	--	--	3,375	--	--
GEORGIA	--	--	--	7,307	2,899	--	--
HAWAII	--	--	--	4	700	--	--
IDAHO	--	--	--	--	1,240,619	--	--
ILLINOIS	--	--	--	--	351,487	--	--
INDIANA	--	--	--	--	382	--	--
IOWA	--	--	--	--	125,404	--	351
KANSAS	--	--	--	37	45,180	--	--
KENTUCKY	--	--	--	31	64,384	--	--
LOUISIANA	--	--	--	3	23,243	--	110
MAINE	--	--	--	--	5,086	--	--
MARYLAND	--	--	--	--	23,794	--	--
MASSACHUSETTS	--	--	--	--	3,738	--	--
MICHIGAN	--	--	--	--	27,585	--	--
MINNESOTA	--	--	--	--	72,530	--	--
MISSISSIPPI	--	--	--	--	1,575	--	--
MISSOURI	--	--	--	--	10,976	--	--
MONTANA	--	--	--	10	203,827	--	--
NEBRASKA	--	--	--	--	31,639	--	--
NEVADA	--	--	--	--	12,957	--	--
NEW HAMPSHIRE	--	--	--	--	1,926	--	--
NEW JERSEY	--	--	--	--	8,885	--	--
NEW MEXICO	--	--	--	--	555,212	--	--
NEW YORK	--	--	--	--	52,424	--	--
NORTH CAROLINA	--	--	--	--	11,385	--	--
NORTH DAKOTA	--	--	--	--	37,065	--	--
OHIO	--	--	--	--	284,011	--	--
OKLAHOMA	--	--	--	--	27,935	--	229
OREGON	--	--	--	--	140,909	--	52
PENNSYLVANIA	--	--	--	--	66,353	--	--
RHODE ISLAND	--	--	--	242	2,016	--	--
SOUTH CAROLINA	--	--	--	--	934	--	--
SOUTH DAKOTA	--	--	--	--	52,877	--	--
TENNESSEE	--	--	--	--	20,665	--	--
TEXAS	--	--	--	396,879	1,931,844	--	--
UTAH	--	--	--	--	801,538	--	69
VERMONT	--	--	--	--	1,121	--	--
VIRGINIA	--	--	--	--	99,407	--	158
WASHINGTON	--	--	--	--	44,053	--	--
WEST VIRGINIA	--	--	--	--	114,413	--	--
WISCONSIN	--	--	--	112	13,586	--	--
WYOMING	--	--	--	--	840,165	--	--
PUERTO RICO	--	--	--	713	174	--	--
VIRGIN ISLANDS	--	--	--	9,400	3,819	--	--
TOTALS:	--	--	--	417,423	7,908,580	--	1,001

PSOROPTIC CATTLE SCABIES, FY 1972



CATTLE SCABIES ERADICATION



CATTLE SCABIES

Psoroptic cattle scabies dominated the cattle scabies scene during FY 1972 with 91 outbreaks reported. This is three times more outbreaks reported than in any year from 1950 to 1970. Eleven outbreaks were reported in FY 1971.

The 91 outbreaks were reported from 44 counties in seven States. More than 375,000 head of cattle were involved on the infected premises.

In October 1971, the first of the 91 outbreaks was reported from a feedlot located on a Nebraska ranch. The last outbreak for FY 1972 was reported in June 1972 from the public stockyards at Omaha when cattle from an Iowa feedlot were presented for sale.

A review of the picture during this period, when psoroptic cattle scabies was reported and confirmed each month from October through June, should substantiate the contention by those who say that scabies can be detected at all times of the year with diligent inspection. Confirmation of scabies during the summer demonstrates that the ability to detect scabies at all times of the year is available to us, particularly as some of the disclosures were made by inspectors with limited scabies experience.

Inspection must be of uniform high quality if psoroptic cattle scabies is to be found. The need for diligent inspection cannot be overstressed when a review of the outbreaks reveals that many of the cattle involved were inspected more than once before scabies was found; and in some instances, the period between the inspections was less than a month.

The changing pattern in cattle feeding operations with the many large feedlots now in the Southwest--particularly the panhandle areas of Texas and Oklahoma--has made these areas vulnerable to psoroptic cattle scabies. The total number of outbreaks may be less because of the larger concentrations of cattle in feedlots; but the potential loss in production and cost of treatment of a single outbreak is much higher when as many as 100,000 cattle are held in a single feedlot. The many and varied routes the cattle travel before reaching the feedlot increases the probability that large feedlots will experience outbreaks of psoroptic cattle scabies. The pattern of movement does, however, provide an opportunity for at least one, and more often several, inspections before the cattle reach the feedlot. The opportunity to find scabies at these early inspections must be taken advantage of through quality inspection if outbreaks are to be prevented in large concentrations of cattle and if scabies is to be found early enough to trace it back to its source.

Psoroptic Cattle Scabies--Epidemiology

Outbreak No. 1

Brown County, Nebraska

1,500 head -- feedlot and ranch

Confirmed October 26, 1971

Found by State veterinarian on survey

Cattle purchased through Oklahoma market July 1971

Associated with outbreaks Nos. 3 and 83

Outbreak No. 2

Cimarron County, Oklahoma

12,000 head -- feedlot

Confirmed November 2, 1971

Found by State livestock inspector following report from veterinarian who examined animals upon owner's request

Associated with outbreak No. 3

Outbreak No. 3

Dallam County, Texas

2,000 head -- rancher-dealer

Confirmed November 9, 1971

Found by State livestock inspector through tracing from outbreaks Nos. 1 and 2

Associated with outbreaks Nos. 1 and 2

Outbreak No. 4

Moore County, Texas

17,000 head -- feedlot

Confirmed November 9, 1971

Found by Federal livestock inspector through tracing from market involved in outbreaks Nos. 1, 2, and 3

Associated with outbreaks Nos. 1, 2, and 3

Outbreak No. 5

Donley County, Texas

24 head -- rancher-dealer

Confirmed November 11, 1971

Found by Federal livestock inspector through tracing from outbreak No. 3

Associated with outbreaks Nos. 1, 2, 3, 4, and 8

Outbreak No. 6

Cimarron County, Oklahoma

4,200 head -- feedlot

Confirmed November 15, 1971

Found through inspection of feedlot by Federal livestock inspector

Associated with outbreaks Nos. 1, 3, 4, 5, and 81

Outbreak No. 7

Motley County, Texas

125 head -- rancher-dealer

Confirmed November 15, 1971

Found through tracing by State livestock inspector

Associated with outbreaks Nos. 3 and 5

Outbreak No. 8

Donley County, Texas

60 head -- ranch

Confirmed November 15, 1971

Found through tracing by Federal livestock inspector

Associated with outbreak No. 5

Outbreak No. 9

Deaf Smith County, Texas
21,000 head -- feedlot
Confirmed November 19, 1971
Found by practicing veterinarian
Associated with outbreak No. 3

Outbreak No. 10

Ford County, Kansas
19,000 head -- feedlot
Confirmed November 29, 1971
Found through tracing by team consisting of State veterinarian and State livestock inspector and Federal livestock inspector
Associated with outbreak No. 3

Outbreak No. 11

Chaves County, New Mexico
9,000 head -- feedlot
Confirmed November 29, 1971
Found by State livestock inspector
Associated with outbreak No. 7

Outbreak No. 12

Greer County, Oklahoma
250 head -- ranch
Confirmed November 29, 1971
Found through tracing by Federal veterinarian
Associated with outbreak No. 5

Outbreak No. 13

Childress County, Texas
250 head -- ranch
Confirmed December 6, 1971
Found through tracing by Federal livestock inspector
Associated with outbreak No. 5

Outbreak No. 14

Collingsworth County, Texas
250 head -- feedlot
Confirmed December 6, 1971
Found through tracing by Federal livestock inspector
Associated with outbreaks Nos. 5 and 38

Outbreak No. 15

Douglas County, Nebraska
10,000 head -- feedlot
Confirmed December 8, 1971
Found on survey by State livestock inspector
Associated with outbreak No. 17

Outbreak No. 16

Greer County, Oklahoma
250 head -- ranch

Confirmed December 13, 1971
Found through tracing by Federal livestock inspector
Associated with outbreak No. 5

Outbreak No. 17

Douglas County, Nebraska
1,621 head -- feedlot
Confirmed December 13, 1971
Found through tracing by Federal veterinarian
Associated with outbreak No. 15

Outbreak No. 18

Oldham County, Texas
460 head -- ranch
Confirmed December 16, 1971
Found through tracing by State livestock inspector
Associated with outbreak No. 25

Outbreak No. 19

Oldham County, Texas
391 head -- ranch
Confirmed December 16, 1971
Found through tracing by State livestock inspector
Associated with outbreak No. 25

Outbreak No. 20

Tillman County, Oklahoma
6,800 head -- feedlot
Confirmed December 17, 1971
Found by Federal veterinarian
Associated with outbreaks Nos. 5 and 38

Outbreak No. 21

Parmer County, Texas
12,000 head -- feedlot
Confirmed December 20, 1971
Found through tracing by State livestock inspector
Associated with outbreak No. 5

Outbreak No. 22

Oldham County, Texas
336 head -- ranch
Confirmed December 22, 1971
Found by practicing veterinarian

Outbreak No. 23

Childress County, Texas
100 head -- ranch
Confirmed December 22, 1971
Found through tracing by Federal livestock inspector
Associated with outbreak No. 7

Outbreak No. 24

Donley County, Texas

35 head -- ranch

Confirmed December 22, 1971

Found through tracing by State livestock inspector

Associated with outbreaks Nos. 5 and 7

Outbreak No. 25

Oldham County, Texas

509 head -- ranch

Confirmed December 22, 1971

Found through owner requesting aid of State livestock inspector

Outbreak No. 26

Torrance County, New Mexico

800 head -- ranch

Confirmed December 23, 1971

Found by State livestock inspector following a report by a neighbor

Associated with outbreaks Nos. 31, 50, 60, 61, 62, and 77

Outbreak No. 27

Collingsworth County, Texas

320 head -- ranch

Confirmed December 27, 1971

Found through tracing by Federal livestock inspector

Associated with outbreak No. 5

Outbreak No. 28

Potter County, Texas

430 head -- feedlot

Confirmed December 30, 1971

Found through owner's request for assistance to State livestock inspector

Associated with outbreak No. 3

Outbreak No. 29

Motley County, Texas

7 head -- ranch

Confirmed December 30, 1971

Found through tracing by State livestock inspector

Associated with outbreak No. 7

Outbreak No. 30

Dallam County, Texas

1,100 head -- feedlot

Confirmed December 30, 1971

Found upon owner's request for aid by State livestock inspector

Outbreak No. 31

Guadalupe County, New Mexico

1,400 head -- ranch

Confirmed December 30, 1971

Found through tracing by State livestock inspector

Associated with outbreaks Nos. 26, 32, and 85

Outbreak No. 32

Audubon County, Iowa

1,236 head -- feedlot

Confirmed January 3, 1972

Found through tracing by Federal veterinarian

Associated with outbreaks Nos. 26 and 31

Outbreak No. 33

Morton County, Kansas

288 head -- ranch

Confirmed January 5, 1972

Found by practicing veterinarian

Associated with outbreak No. 34

Outbreak No. 34

Harding County, New Mexico

106 head -- ranch

Confirmed January 5, 1972

Found through tracing by State livestock inspector

Associated with outbreaks Nos. 33, 52, 59, and 63

Outbreak No. 35

Hansford County, Texas

24,000 head -- feedlot

Confirmed January 6, 1972

Found by practicing veterinarian

Associated with outbreak No. 3

Outbreak No. 36

Deaf Smith County, Texas

209 head -- ranch

Confirmed January 6, 1972

Found through tracing by State livestock inspector

Outbreak No. 37

Potter County, Texas

201 head -- ranch

Confirmed January 6, 1972

Found through tracing by State livestock inspector

Associated with outbreaks Nos. 3 and 9

Outbreak No. 38

Hall County, Texas

42 head -- ranch

Confirmed January 6, 1972

Found through tracing by State livestock inspector

Associated with outbreak No. 5

Outbreak No. 39

Ellis County, Kansas

12,000 head -- feedlot

Confirmed January 10, 1972

Found by practicing veterinarian

Associated with outbreak No. 3

Outbreak No. 40

Harding County, New Mexico

800 head -- ranch

Confirmed January 10, 1972

Found through tracing by Federal veterinarian

Associated with outbreaks Nos. 34 and 51

Outbreak No. 41

Deaf Smith County, Texas

170 head -- ranch

Confirmed January 11, 1972

Found through tracing by State livestock inspector

Associated with outbreak No. 22

Outbreak No. 42

Castro County, Texas

12,000 head -- feedlot

Confirmed January 17, 1972

Found through tracing by State livestock inspector

Associated with outbreak No. 5

Outbreak No. 43

Floyd County, Texas

16,000 head -- feedlot

Confirmed January 17, 1972

Found through tracing by Federal veterinarian

Associated with outbreak No. 31

Outbreak No. 44

Hall County, Texas

36 head -- ranch

Confirmed January 19, 1972

Found on survey by State livestock inspector

Associated with outbreak No. 28

Outbreak No. 45

Randall County, Texas

400 head -- ranch

Confirmed January 19, 1972

Found upon owner's request for aid by Federal livestock inspector

Outbreak No. 46

Armstrong County, Texas

31 head -- ranch

Confirmed January 19, 1972

Found on survey by State livestock inspector

Associated with outbreak No. 53

Outbreak No. 47

Hale County, Texas

14,500 head -- feedlot

Confirmed January 24, 1972

Found following owner's request for aid by State livestock inspector

Outbreak No. 48

Collingsworth County, Texas

150 head -- ranch

Confirmed January 24, 1972

Found on survey by Federal livestock inspector

Outbreak No. 49

Ford County, Kansas

5,500 head -- feedlot

Confirmed January 24, 1972

Found by practicing veterinarian at auction market

Associated with outbreaks Nos. 51, 64, and 71

Outbreak No. 50

Torrance County, New Mexico

430 head -- ranch

Confirmed January 24, 1972

Found through tracing by State livestock inspector

Associated with outbreak No. 26

Outbreak No. 51

Harding County, New Mexico

750 head -- ranch

Confirmed January 25, 1972

Found through tracing by Federal livestock inspector

Associated with outbreaks Nos. 34 and 40

Outbreak No. 52

Woods County, Oklahoma

260 head -- ranch

Confirmed January 27, 1972

Found by practicing veterinarian

Associated with outbreaks Nos. 33, 34, 59, and 63

Outbreak No. 53

Swisher County, Texas

18,000 head -- feedlot

Confirmed January 31, 1972

Found through tracing by Federal veterinarian

Associated with outbreak No. 46

Outbreak No. 54

Ford County, Kansas

4,400 head -- feedlot

Confirmed January 31, 1972

Found through surveillance by Federal livestock inspector

Associated with outbreak No. 39

Outbreak No. 55

Randall County, Texas

530 head -- ranch

Confirmed February 1, 1972

Found at auction market by State livestock inspector

Outbreak No. 56

Hall County, Texas

43 head -- ranch

Confirmed February 1, 1972

Found on survey by State livestock inspector

Associated with outbreak No. 38

Outbreak No. 57

Childress County, Texas

250 head -- ranch

Confirmed February 1, 1972

Found through tracing by Federal livestock inspector

Associated with outbreak No. 7

Outbreak No. 58

Hall County, Texas

9 head -- ranch

Confirmed February 2, 1972

Found on survey by State livestock inspector

Outbreak No. 59

Alfalfa County, Oklahoma

250 head -- ranch

Confirmed February 2, 1972

Found through tracing by Federal veterinarian

Associated with outbreaks Nos. 33, 34, 58, and 63

Outbreak No. 60

Torrance County, New Mexico

477 head -- ranch

Confirmed February 2, 1972

Found through tracing by State livestock inspector

Associated with outbreak No. 26

Outbreak No. 61

Lincoln County, New Mexico

350 head -- ranch

Confirmed February 2, 1972

Found through tracing by State brand inspector

Associated with outbreaks Nos. 26, 31, and 32

Outbreak No. 62

Torrance County, New Mexico

1,000 head -- ranch

Confirmed February 2, 1972

Found through tracing by State livestock inspector

Associated with outbreak No. 26

Outbreak No. 63

Texas County, Oklahoma

292 head -- ranch

Confirmed February 4, 1972

Found through tracing by Federal livestock inspector
Associated with outbreaks Nos. 33, 34, 52, and 59

Outbreak No. 64

Meade County, Kansas

208 head -- ranch

Confirmed February 7, 1972

Found through tracing by Federal livestock inspector

Associated with outbreak No. 49

Outbreak No. 65

Jackson County, Oklahoma

900 head -- ranch

Confirmed February 7, 1972

Found on survey by Federal livestock inspector

Outbreak No. 66

Torrance County, New Mexico

1,800 head -- ranch

Confirmed February 7, 1972

Found through tracing by State livestock inspector

Associated with outbreak No. 26

Outbreak No. 67

Kit Carson County, Colorado

850 head -- ranch

Confirmed February 8, 1972

Found by practicing veterinarian

Associated with outbreaks Nos. 68 and 80

Outbreak No. 68

Kit Carson County, Colorado

1,700 head -- ranch

Confirmed February 8, 1972

Found through tracing by Federal livestock inspector

Associated with outbreak No. 67

Outbreak No. 69

Bailey County, Texas

600 head -- ranch

Confirmed February 9, 1972

Found on survey by Federal livestock inspector

Outbreak No. 70

Hansford County, Texas

12,188 head -- feedlot

Confirmed February 11, 1972

Found on survey by Federal livestock inspector

Outbreak No. 71

Ford County, Kansas

59 head -- feedlot

Confirmed February 11, 1972
Found on tracing by Federal veterinarian
Associated with outbreaks Nos. 49, 51, 64, and 84

Outbreak No. 72

Parmer County, Texas
24,408 head -- feedlot
Confirmed February 14, 1972
Found on survey by State livestock inspector
Associated with outbreak No. 31

Outbreak No. 73

Potter County, Texas
4 head -- ranch
Confirmed February 14, 1972
Found through owner's request to Federal livestock inspector

Outbreak No. 74

Armstrong County, Texas
60 head -- ranch
Confirmed February 16, 1972
Found on survey by State livestock inspector
Associated with outbreak No. 46

Outbreak No. 75

Cimarron County, Oklahoma
29 head -- ranch
Confirmed February 22, 1972
Found on survey by Federal livestock inspector
Associated with outbreaks Nos. 81 and 89

Outbreak No. 76

Potter County, Texas
5 head -- ranch
Confirmed February 23, 1972
Found on survey by State livestock inspector
Associated with outbreak No. 78

Outbreak No. 77

Otero County, New Mexico
800 head -- ranch
Confirmed March 1, 1972
Found through tracing by State livestock inspector
Associated with outbreak No. 26

Outbreak No. 78

Gray County, Texas
14,000 head -- feedlot
Confirmed March 1, 1972
Found through tracing by State livestock inspector
Associated with outbreak No. 76

Outbreak No. 79

Armstrong County, Texas

49 head -- ranch

Confirmed March 1, 1972

Found following owner's request to State livestock inspector

Associated with outbreaks Nos. 46, 53, and 82

Outbreak No. 80

Dodge County, Nebraska

1,102 head -- feedlot

Confirmed March 2, 1972

Found through tracing by State livestock inspector and Federal veterinarian

Associated with outbreak No. 67

Outbreak No. 81

Cimarron County, Oklahoma

240 head -- ranch

Confirmed March 3, 1972

Found through tracing by Federal livestock inspector

Associated with outbreaks Nos. 6, 75, and 89

Outbreak No. 82

Armstrong County, Texas

121 head -- ranch

Confirmed March 6, 1972

Found following owner's request for aid to State livestock inspector

Associated with outbreaks Nos. 46, 53, and 79

Outbreak No. 83

Keya Paha County, Nebraska

28 head -- dairy

Confirmed March 10, 1972

Found through tracing by State veterinarian

Associated with outbreak No. 1

Outbreak No. 84

Gray County, Kansas

32,000 head -- feedlot

Confirmed March 20, 1972

Found by practicing veterinarian

Associated with outbreaks Nos. 34 and 71

Outbreak No. 85

Parmer County, Texas

34,000 head -- feedlot

Confirmed March 22, 1972

Found through tracing by Federal livestock inspector

Associated with outbreak No. 31

Outbreak No. 86

Cimarron County, Oklahoma

35 head -- ranch

Confirmed March 27, 1972
Found on survey by State livestock inspector

Outbreak No. 87

Haskell County, Kansas
10,000 head -- feedlot
Confirmed March 31, 1972
Found on survey by Federal veterinarian

Outbreak No. 88

Beaver County, Oklahoma
8 head -- ranch
Confirmed April 17, 1972
Found at market by Federal veterinarian

Outbreak No. 89

Cimarron County, Oklahoma
111 head -- ranch
Confirmed May 8, 1972
Found on survey by State livestock inspector
Associated with outbreaks Nos. 75 and 81

Outbreak No. 90

Randall County, Texas
213 head -- ranch
Confirmed June 12, 1972
Found on inspection for movement by State livestock inspector

Outbreak No. 91

Pottawattamie County, Iowa
69 head -- feedlot
Confirmed June 26, 1972
Found at public stockyards

SARCOPTIC CATTLE SCABIES

Sarcoptic cattle scabies continued to be a problem during FY 1972, although its impact was overshadowed by the psoroptic cattle scabies situation.

Ten cattle herds were found infected with Sarcoptes scabiei mites. These herds were located in Nebraska, New Hampshire, and Vermont. In the 10 herds, 3,182 head of cattle were found infected. The herds in New Hampshire and Vermont were successfully treated using heated lime-sulfur in a spray-dip machine. The herds in Nebraska were successfully treated using a permitted toxaphene dip in a spray-dip machine.

SARCOPTIC SCABIES IN LLAMAS

Sarcoptic scabies was reported in llamas located in Clark County, Ia., in May 1972. The group of animals consisted of seven llamas, 80 Mouflon sheep, and

two asses. The sarcoptic scabies was only evident in the llamas but all of the animals were treated using a permitted toxaphene dip in a spray-dip machine. Sarcoptic scabies appears to be a problem in llamas and has been reported in previous years from several sections of the country. The llamas may be part of a traveling show or may be kept as an attraction at one location. They have been reported as being maintained part-time on ranches or farms and can be considered a source of scabies for other livestock. The same procedure should be followed with infected llamas as is recommended for infected cattle.

CHORIOPTIC CATTLE SCABIES FOUND AT LIVESTOCK SHOWS

FORT WORTH FAT STOCK SHOW, FORT WORTH, TEX.--In January 1972, chorioptic mites were collected from one lot of Missouri cattle.

LOUISIANA STATE UNIVERSITY LIVESTOCK SHOW, BATON ROUGE--In February 1972, chorioptic mites were collected from one lot of Mississippi cattle and seven lots of Louisiana cattle.

HOUSTON LIVESTOCK SHOW, TEX.--In February 1972, chorioptic mites were collected from one lot of Texas cattle imported from Canada.

PSOROPTIC CATTLE SCABIES
Program Activities Fiscal Years 1961 Through 1972

Fiscal Year	INFECTED			
	States	Counties	Herds <u>1/</u>	Lots at public stkyds.
	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>
1961	5	8	10	3
1962	3	4	4	1
1963	--	--	--	--
1964	2	2	2	1
1965	4	4	4	--
1966	3	9	15	1
1967	--	--	--	--
1968	2	4	4	1
1969	3	5	6	1
1970	1	1	1	--
1971	3	7	11	--
1972	7	47	91	1

1/ Includes infected lots located at public stockyards.

Fiscal Year	INSPECTIONS		DIPPINGS	
	At public stockyards	Other	At public stockyards	Other
	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>
1961	21,334,686	7,660,685	46,005	234,293
1962	20,438,908	8,160,029	42,197	123,549
1963	20,168,561	13,464,758	69,772	129,882
1964	19,912,734	17,260,340	43,333	40,827
1965	20,508,076	18,389,099	50,132	77,027
1966	20,048,390	22,509,512	52,501	247,960
1967	18,491,304	24,361,958	49,185	105,820
1968	17,148,967	23,869,523	40,105	106,692
1969	16,615,776	29,425,590	43,672	118,140
1970	15,632,899	28,670,897	2,408	28,290
1971	14,019,291	25,321,574	24,761	125,602
1972	12,233,311	36,231,843	147,968	1,013,001

CATTLE SCABIES -- FISCAL YEAR 1972

STATE OR TERRITORY	I N F E C T E D						Cattle Inspected	Cattle Dipped
	PSOROPTIC		CHORIOPTIC		SARCOPTIC			
	Herds	Cattle	Herds	Cattle	Herds	Cattle		
	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
ALABAMA	--	--	--	--	--	--	737,563	--
ALASKA	--	--	--	--	--	--	90	--
ARIZONA	--	--	1	1	--	--	488,102	--
ARKANSAS	--	--	--	--	--	--	--	--
CALIFORNIA	--	--	3	54	--	--	3,391,422	--
COLORADO	2	2,550	1	21	2	58	3,125,385	57,645
CONNECTICUT	--	--	--	--	--	--	119	--
DELAWARE	--	--	--	--	--	--	11,571	--
FLORIDA	--	--	--	--	--	--	18,076	--
GEORGIA	--	--	2	159	--	--	1,162,662	53
HAWAII	--	--	1	100	--	--	48,879	--
IDAHO	--	--	--	--	--	--	313,814	100
ILLINOIS	--	--	--	--	--	--	824	71
INDIANA	--	--	--	--	--	--	30	--
IOWA	2	1,305	2	495	--	--	35,634	5,541
KANSAS	9	83,467	12	1,730	--	--	1,422,778	82,138
KENTUCKY	--	--	3	569	--	--	212	--
LOUISIANA	--	--	8	47	--	--	5,724	109
MAINE	--	--	--	--	--	--	--	--
MARYLAND	--	--	1	8	--	--	--	--
MASSACHUSETTS	--	--	--	--	--	--	742	--
MICHIGAN	--	--	1	1	--	--	--	--
MINNESOTA	--	--	1	9	--	--	--	--
MISSISSIPPI	--	--	1	19	--	--	134,600	1,018
MISSOURI	--	--	1	5	--	--	146	380
MONTANA	--	--	1	2	--	--	1,120,066	358
NEBRASKA	5	12,650	--	--	2	1,005	643,965	35,884
NEVADA	--	--	--	--	--	--	77,368	1,028
NEW HAMPSHIRE	--	--	--	--	2	47	64	17
NEW JERSEY	--	--	--	--	--	--	--	--
NEW MEXICO	12	18,101	1	558	--	--	443,252	53,176
NEW YORK	--	--	3	44	--	--	1,212	1,212
NORTH CAROLINA	--	--	--	--	--	--	3,939	--
NORTH DAKOTA	--	--	--	--	--	--	102,218	--
OHIO	--	--	--	--	--	--	253	--
OKLAHOMA	14	25,412	4	189	--	--	3,704,588	292,005
OREGON	--	--	4	881	--	--	69,909	5,548
PENNSYLVANIA	--	--	1	59	--	--	59	--
RHODE ISLAND	--	--	--	--	--	--	--	--
SOUTH CAROLINA	--	--	--	--	--	--	303,781	--
SOUTH DAKOTA	--	--	--	--	--	--	124,410	--
TENNESSEE	--	--	--	--	--	--	1,136,333	--
TEXAS	47	218,352	82	3,621	--	--	15,618,257	469,048
UTAH	--	--	--	--	--	--	883,183	--
VERMONT	--	--	26	1,540	4	2,072	2,100	5,920
VIRGINIA	--	--	1	1	--	--	--	--
WASHINGTON	--	--	3	314	--	--	432,029	1,610
WEST VIRGINIA	--	--	1	1	--	--	644	--
WISCONSIN	--	--	5	179	--	--	5,945	140
WYOMING	--	--	--	--	--	--	622,815	--
PUERTO RICO	--	--	--	--	--	--	25,465	--
VIRGIN ISLANDS	--	--	--	--	--	--	11,615	--
TOTALS:	91	361,837	171	10,606	10	3,182	36,231,843	1,013,001

SCABIES SUPPORT ACTIVITIES

Veterinary Services Diagnostic Laboratory, Parasitology Laboratory

The Veterinary Services Parasitology Laboratory provided support through identification of the following submissions during FY 1972:

<u>Ectoparasite</u>	<u>Submissions</u>
Ticks	2,618
Mites	341
Misc. (lice, grubs, fleas, etc.)	244
Screwworm larvae	23,244
Blow Fly larvae	3,956

Chorioptic Mites Collected From Several Species of Animals in Addition to Cattle in Various States

SHEEP: Chorioptic mites were collected from two lots of sheep--one each in Oregon and Virginia.

GOATS: Chorioptic mites were collected from one lot of goats in Texas.

Psoroptic Mites Collected From Several Species of Animals in Various States

CATTLE: Psoroptic mites were collected from 91 lots of cattle--Colorado (2), Iowa (2), Kansas (9), Nebraska (5), New Mexico (12), Oklahoma (14), and Texas (47).

GOATS: Psoroptic mites were collected from six lots of goats--Maryland (1) and Texas (5).

DEER: Psoroptic mites were collected from 17 lots of deer in South Carolina.

Sarcoptic Mites Collected From Swine in Various States

Sarcoptic mites were collected from 48 lots of swine--Arizona (3), Colorado (4), Hawaii (7), Idaho (4), Louisiana (2), Maryland (1), Montana (1), Nebraska (1), New York (3), Oklahoma (1), Oregon (3), Pennsylvania (1), Texas (2), Washington (11), and Wisconsin (4).

Sarcoptic Mites Collected From Several Species of Animals in Addition to Swine in Various States

CATTLE: Sarcoptic mites were collected from seven lots of cattle--Colorado (2), Nebraska (2), New Hampshire (2), and Vermont (4).

HORSES: Sarcoptic mites were collected from one lot of horses in Michigan.

Demodectic Mites Collected From Several Species of Animals in Various States

SWINE: Demodectic mites were collected from four lots of swine--Hawaii (1), Oregon (2), and Washington (1).

CATTLE: Demodectic mites were collected from five lots of cattle--Iowa (1), New Mexico (1), Texas (1), and Vermont (2).

SHEEP: Demodectic mites were collected from one lot of sheep in Michigan.

Psorergatic Mites Collected From Several Species of Animals in Various States

CATTLE: Psorergatic mites were collected from five lots of cattle--Nebraska (2) and New Mexico (3).

Veterinary Services Diagnostic Laboratory, Chemical Reference Laboratory

The following analytical work was performed by the Veterinary Services Chemical Reference Laboratory in support of Veterinary Services programs.

	<u>Dip Analysis</u>	<u>Samples</u>	<u>Test/Sample</u>	<u>Replicates</u>	<u>Total</u>
1.	Toxaphene	9,330	1	4	37,320
2.	Toxaphene EC	920	1	4	3,680
3.	Co-Ral	996	1	4	3,984
4.	Delnav	354	1	3	1,062
5.	Ciodrin	15	1	3	45
6.	Lime-Sulfur	33	1	3	99
7.	Arsenical	3	1	3	9
8.	Rommel	6	1	4	24
9.	Dursban	9	1	4	36
10.	Specific Gravity	920	1	2	<u>1,840</u>
	Total Analysis				48,099

PESTICIDE DISPOSAL

	<u>Dip</u>	<u>Sump</u>	<u>Drain or Sewer</u>	<u>Other</u>
Toxaphene		23	2	--
Arsenic		75	1	--
Co-Ral		2	--	--
Delnav		--	--	1

Disposal of used pesticides into a sump, the recommended procedure, was accomplished in almost all instances of pesticide disposal for FY 1972. A discharge of Delnav was accomplished by making use of the used dip for irrigation and pest control on lawn and ornamental plants. The use of open drains and sewers is being phased out.

There were no reports of fish kills from dumping of used dip or from dip carried into streams or ponds by freshly dipped cattle.

MACERATION-FLOTATION PROCEDURE
Fiscal Year 1972

State	Total	Cattle	Sheep	Swine	Horses	Goats	Dogs	Other
	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>
Alabama	--	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--	--
Arizona	23	23	--	--	--	--	--	--
Arkansas	15	15	--	--	--	--	--	--
California	48	38	3	2	4	1	--	--
Colorado	95	86	1	3	1	3	--	1
Connecticut	--	--	--	--	--	--	--	--
Delaware	1	--	1	--	--	--	--	--
Florida	--	--	--	--	--	--	--	--
Georgia	1	1	--	--	--	--	--	--
Hawaii	1	1	--	--	--	--	--	--
Idaho	34	18	3	6	7	--	--	--
Illinois	24	9	15	--	--	--	--	--
Indiana	--	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--	--
Kansas	113	110	3	--	--	--	--	--
Kentucky	7	3	4	--	--	--	--	--
Louisiana	21	21	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--	--
Michigan	--	--	--	--	--	--	--	--
Minnesota	1	1	--	--	--	--	--	--
Mississippi	5	--	5	--	--	--	--	--
Missouri	--	--	--	--	--	--	--	--
Montana	9	9	--	--	--	--	--	--
Nebraska	143	143	--	--	--	--	--	--
Nevada	5	5	--	--	--	--	--	--
New Hampshire	3	3	--	--	--	--	--	--
New Jersey	2	1	1	--	--	--	--	--
New Mexico	384	384	--	--	--	--	--	--
New York	--	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--	--
North Dakota	5	5	--	--	--	--	--	--
Ohio	34	4	1	17	--	--	6	6
Oklahoma	557	556	--	1	--	--	--	--
Oregon	74	68	4	1	--	--	1	--
Pennsylvania	3	1	2	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--	--
Tennessee	4	4	--	--	--	--	--	--
Texas	479	462	3	1	2	11	--	--
Utah	--	--	--	--	--	--	--	--
Vermont	222	222	--	--	--	--	--	--
Virginia	19	3	16	--	--	--	--	--
Washington	21	5	16	--	--	--	--	--
West Virginia	5	--	5	--	--	--	--	--
Wisconsin	51	20	1	5	11	--	10	4
Wyoming	--	--	--	--	--	--	--	--
Puerto Rico	--	--	--	--	--	--	--	--
Virgin Islands	--	--	--	--	--	--	--	--
Totals:	2,409	2,221	84	36	25	15	17	11

NONPARASITIC MITES AND OTHER MISCELLANEOUS COLLECTIONS

Nonparasitic mites are frequently found on cattle, sheep, and other animals being inspected for scabies. These mites do not cause scabies but can easily be confused with those that cause the disease, particularly if it is suspected that the flock or herd may be infected. The following nonparasitic mites and other miscellaneous parasites were reported during Fiscal Year 1972.

ARIZONA	Pima	March 25, 1972	Bighorn Sheep	<i>Dermacentor hunteri</i> - Bighorn sheep tick.
CALIFORNIA	Sacramento	January 1, 1972	Cow	Psocoptera - book-lice.
COLORADO	Pueblo		do	Oribatei - soil mite.
DISTRICT OF COLUMBIA		March 1972	Dog	<i>Neoschongastia</i> sp. - chiggers.
FLORIDA	Monroe	July 3, 1971	Sooty Tern	Trombidiidae - parasitize arthropods.
INDIANA	Elkhart	June 1972	Sheep	Acaridae - grain mite.
IOWA	Allamakee	April 25, 1972	Cow	Do.
MARYLAND	Kent	May 5, 1972	Goat	<i>Psoroptes cuniculi</i> - ear mite.
MINNESOTA	Dakota	April 11, 1972	Cow	Tarsonemidae - plant mite.
MONTANA	Toole	October 1, 1971	do	<i>Demodex bovis</i> - parasite of cattle.
NEBRASKA	Antelope	January 20, 1972	do	<i>Psorergates bos</i> - cattle itch mite.
Do	Brown	March 21, 1972	do	Tarsonemidae - plant mite.
Do	do	April 7, 1972	do	Do.
Do	do	April 17, 1972	do	Acaridae - grain mite.
PENNSYLVANIA	Philadelphia	August 4, 1971	Mice	<i>Myocoptes musculus</i> - mycoptic mange mite.
PUERTO RICO	Aguadilla	May 2, 1972	Rabbit	<i>Notoedres cati</i> - mange mite. <i>Cheyletiella parasitivorax</i> - rabbit fur mite.
SOUTH CAROLINA	Colleton	March 9, 1972	White-tailed Deer	<i>Psoroptes cuniculi</i> - ear mite.
Do	do	do	do	Do.
Do	Jasper	March 23, 1972	do	Do.
Do	do	do	do	Do.
Do	Beaufort	March 28, 1972	do	Do.
Do	Colleton	March 1972	do	Do.
TEXAS	Red River		Barn Swallow	<i>Dermanyssus americanus</i> - american bird mite.
Do	Grayson	March 11, 1972	Screech Owl	Parasitoidea - predator mite.
VERMONT	Addison	January 27, 1972	Cow	Tetranychidae - plant mite.
WEST VIRGINIA	Upshur	July 12, 1971	Sheep	Acaridae - grain mite.
WISCONSIN	Barron	May 18, 1972	Rabbit	<i>Psoroptes cuniculi</i> - ear mite.
Do	Douglas	June 21, 1972	do	Do.

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Animal and Plant Health Inspection Service
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